

- Spiral **membrane** module back **washing** method for separation apparatus e.g. precision filtration apparatus - involves supplying back wash gas and raw water in opposing directions via module until residual water permeation is zero.

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AN 1999-423074 [36] WPINDEX

DNC C1999-124466

DC D15 J01

PA (KURK) KURITA WATER IND LTD

CYC 1

PI JP 11169684 A 19990629 (199936)* 7p

ADT JP 11169684 A JP 1997-343201 19971212

PRAI JP 1997-343201 19971212

AN 1999-423074 [36] WPINDEX

AB JP 11169684 A UPAB: 19990908

NOVELTY - Raw water and back wash gas are supplied in opposing direction via a membrane module (40). The gas supply is continued until the residual water permeation reduces and only gas is received on the downstream end.

DETAILED DESCRIPTION - A permeable water flow path agent (15) is distributed into a bag like film (10). Raw water is admitted into the spiral membrane module (40) formed by winding the bag-like film, around a shaft (20). A back washing gas is supplied in the opposite direction to promote reverse flow of water. The gas supply continues until the residual water permeation reduces and gas flow takes place through gas liquid mixture.

USE - Used in precision filtration apparatus, ultrafiltration equipment and reverse osmosis membrane separation apparatus.

ADVANTAGE - Elimination of catchment pipe. Reduces propagation of permeated water. Aids efficient back wash even for

membrane module with large film surface. DESCRIPTION OF DRAWING(S)

- The drawing shows the schematic apparatus when carrying out back wash. Dwg.5/6